

December 6, 2002

Ms. Jami Gay  
Carrier Corporation  
7310 W. Morris Street  
Indianapolis, Indiana 46206

Re: **MSOP Notice-only Change**  
**No.: 097-16837-00015**  
**MSOP No.: 097-15061-00015**

Dear Ms. Gay:

Carrier Corporation was issued an MSOP on April 1, 2002 for a an aluminum air conditioning and furnace coil fin stock manufacturing facility, which included one (1) existing Soil Remediation System (removal of perchloroethylene from soil and groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 100 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 20 liters per minute or 115,707 gallons of water per year, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.

On November 18, 2002, a letter was received by the Office of Environmental Services (OES) requesting a change in Maximum Groundwater Flow Rate to 10 gallons per minute (gpm) which is equivalent to 5.3 million gallons of water per year, in Maximum Concentration of Perchloroethylene (PCE) in groundwater to 100 milligram per liter (mg/L), at assumed removal efficiency in the Air Stripper 99.9%, and, respectively, the PCE Potential Emission to 2.2 tons per year.

The PCE Potential Emission increase is based on the following calculation:

$100 \text{ mg/l} \times 10^{-6} \text{ kg/mg} \times 10 \text{ gpm} \times 3.785 \text{ l/gal} \times 60 \text{ min/hr} \times 2.2 \text{ lb/kg} \times 24 \text{ hr/day} \times 99.9\% = 11.98 \text{ lb/day};$

New PTE:  $11.98 \text{ lb/day} \times 365 \text{ day/yr} / 2000 \text{ lb/ton} = \mathbf{2.186 \text{ ton/yr of PCE.}}$

The previously calculated (permitted) PCE potential to emit was 0.221 ton/yr. Therefore, the PTE increase from the proposed modification will be:

$2.186 - 0.221 = \mathbf{1.965 \text{ ton/yr.}}$

Pursuant to 40 CFR 51.100(s)(1), PCE is a HAP and non-photochemically reactive hydrocarbon; it is, therefore, excluded from the definition of a volatile organic compound (VOC) and not counted towards the sourcewide VOC potential emissions.

Pursuant to the provisions of 326 IAC 2-6.1-6 (d)(10), this modification that has the potential to emit greater than or equal to one (1) ton per year but less than ten (10) tons per year of a single hazardous air pollutant (HAP), the following changes were made in the MSOP Conditions A.2 (page 3) and D.2 (page 14):

*(Continued on page 2)*

**A.2 Emissions units and Pollution Control Equipment Summary**

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- .....
- (b) One (1) existing Soil Remediation System (removal of perchloroethylene from soil and groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of ~~400~~ **150** scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of ~~20-liters~~ **10 gallons** per minute or ~~115,707 gallons of water per year~~, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.
- .....

**SECTION D.2**

**EMISSIONS UNIT OPERATION CONDITIONS**

Emissions Unit Description:

- (a) One (1) existing Soil Remediation System (removal of perchloroethylene from soil and groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of ~~400~~ **150** scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of ~~20-liters~~ **10 gallons** per minute or ~~115,707 gallons of water per year~~, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

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All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this letter and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Boris Gorlin at (317) 327-2280.

Sincerely

Original Signed by John B. Chavez  
John B. Chavez  
Administrator

cc: files  
Air Compliance  
IDEM, OAQ

BG

## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services (OES). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

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The Permittee owns and operates stationary source, an aluminum air conditioning and furnace coil fin stock manufacturing facility.

Authorized Individual: Jami Norton Gay  
Source Address: 7310 W. Morris Street, Indianapolis, Indiana 46206  
Mailing Address: 7310 W. Morris Street, Indianapolis, Indiana 46206  
Phone Number: (317)-481-5746  
SIC Code: 3585  
County Location: Marion  
County Status: Attainment for all criteria pollutants  
Source Status: Minor Source Operating Permit

### A.2 Emissions units and Pollution Control Equipment Summary

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This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- (a) Four (4) existing Burr Oak fin presses Emission Unit IDs P-1, P-2, P-3, and P-4, with maximum capacity throughput of 500 pounds of feedstock rolled aluminum per hour each, and two (2) new Burr Oak fin presses Emission Unit ID's P-5 and P-6, with maximum capacity throughput 556- pounds of feedstock rolled aluminum per hour each, utilizing Arrow KT-70-2-FR as metal stamping fluid (petroleum solvent) containing 70% VOC by weight. Emissions are exhausted to the atmosphere through the Stack GV-1.
- (b) One (1) existing Soil Remediation System (removal of perchloroethylene from soil and groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 150 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 10 gallons per minute, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.
- (c) Five (5) existing Aqueous Detergent Parts Washer Systems, Emission Unit ID's W-1, W-2, W-3, W-4, and W-5, consisting of wash/rinse furnaces burning natural gas with total maximum capacity of 29.1 million cubic feet of Natural Gas per year and parts washers using cleaners containing glycol ether with maximum usage capacity of 37,000 pounds per year each. Parts Washer Systems Emission Unit ID's W-2 and W-3 were installed in 1994, W-1 - in 1993, W-5 - in 1999. Emission are exhausted to the atmosphere through the Stacks PE-35, PE-15, PE-37, PE-45, and PE-41;
- (d) Two (2) existing Autobrazers, Emission Units ID's AB-1 and AB-2, burning natural gas, with total maximum capacity of 11.8 million cubic feet of Natural Gas per year. Emission are exhausted to the atmosphere through the Stacks PE-39 and PE-50.

## SECTION D.2

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) existing Soil Remediation System (removal of perchloroethylene from soil and groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 150 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 10 gallons per minute, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

## Record Keeping and Reporting Requirements

### D.2.1 Record Keeping Requirements

- (a) Records of Perchloroethylene (PCE) and/or any other HAP emissions from this soil and groundwater remediation system shall include HAP concentrations, exhaust flow rates, and monthly HAP emissions.
- (b) All records shall be maintained in accordance with Section C.16 - General Record Keeping Requirements, of this permit.